

Analyte	CAS.NO	Units	MCL	NMWQCC	Sample ID Date Type	PV03-20150716-21DW 7/16/2015 Field Sample	PV03-20150716-21F 7/16/2015 Field Sample	PV03-20150716-21UF 7/16/2015 Field Sample
<b>Dissolved Metals</b>								
ALUMINUM	7429-90-5	mg/L	NP	0.1	--	0.019 UJ	0.019 UJ	<b>0.02 JKQ</b>
ANTIMONY	7440-36-0	mg/L	NP	NP	--	0.00023 U	0.00023 U	0.00023 U
ARSENIC	7440-38-2	mg/L	NP	NP	--	0.00036 U	0.00036 U	<b>0.001 JQ</b>
BARIUM	7440-39-3	mg/L	NP	1	--	<b>0.015</b>	<b>0.059</b>	<b>0.058</b>
BERYLLIUM	7440-41-7	mg/L	NP	NP	--	0.00014 U	0.00014 U	0.00014 U
CADMIUM	7440-43-9	mg/L	NP	0.1	--	0.00013 U	0.00013 U	0.00013 U
CALCIUM	7440-70-2	mg/L	NP	NP	--	<b>36</b>	<b>85</b>	<b>81</b>
CHROMIUM	7440-47-3	mg/L	NP	0.05	--	0.00074 U	0.00074 U	0.00074 U
COBALT	7440-48-4	mg/L	NP	NP	--	0.00021 U	0.00065 UB	0.00067 UB
COPPER	7440-50-8	mg/L	NP	1	--	0.002 UJ	0.002 UJ	0.002 UJ
IRON	7439-89-6	mg/L	NP	1	--	0.013 U	0.013 U	0.013 U
LEAD	7439-92-1	mg/L	NP	0.05	--	0.0002 UJ	0.0003 UJB	<b>0.00062 JK</b>
MAGNESIUM	7439-95-4	mg/L	NP	NP	--	<b>12</b>	<b>13</b>	<b>13</b>
MANGANESE	7439-96-5	mg/L	NP	0.2	--	0.00074 U	<b>0.073</b>	<b>0.00093 JQ</b>
MERCURY	7439-97-6	mg/L	NP	0.002	--	0.00006 U	0.00006 U	0.00006 U
NICKEL	7440-02-0	mg/L	NP	NP	--	0.0023 U	0.0023 U	0.0023 U
POTASSIUM	7440-09-7	mg/L	NP	NP	--	<b>4.7</b>	<b>4.7</b>	<b>4.4</b>
SELENIUM	7782-49-2	mg/L	NP	0.05	--	<b>0.072</b>	<b>0.073</b>	<b>0.068</b>
SILVER	7440-22-4	mg/L	NP	0.05	--	0.000041 U	0.000041 U	0.000041 U
SODIUM	7440-23-5	mg/L	NP	NP	--	<b>58</b>	<b>58</b>	<b>56</b>
THALLIUM	7440-28-0	mg/L	NP	NP	--	0.000034 UR	0.000034 UR	0.000034 UR
URANIUM	7440-61-1	mg/L	NP	0.03	--	<b>0.017</b>	<b>0.06</b>	<b>0.059</b>
VANADIUM	7440-62-2	mg/L	NP	NP	--	0.00069 UB	0.00081 UB	0.001 UB
ZINC	7440-66-6	mg/L	NP	10	--	<b>0.022 JH</b>	<b>0.035 JH</b>	<b>0.074 JH</b>
<b>General Chemistry</b>								
BICARBONATE AS CaCO3	471-34-1	mg/L	NP	NP	--	<b>180</b>	<b>260</b>	<b>270</b>
BROMIDE	24959-67-9	mg/L	NP	NP	--	<b>0.27</b>	<b>0.26</b>	<b>0.26</b>
CARBONATE AS CaCO3	3812-32-6	mg/L	NP	NP	--	20 U	20 U	20 U
CHLORIDE	16887-00-6	mg/L	NP	250	--	<b>19 D</b>	<b>19</b>	<b>19</b>
FLUORIDE	16984-48-8	mg/L	NP	1.6	--	<b>0.11</b>	<b>0.15</b>	<b>0.15</b>
NITRATE AS N	14797-55-8	mg/L	10	10	--	<b>1.1</b>	<b>0.94 JQ</b>	<b>1</b>
NITRITE AS N	14797-65-0	mg/L	1	NP	--	0.1 U	<b>0.069 J</b>	0.1 U
ORTHOPHOSPHATE AS P	14265-44-2	mg/L	NP	NP	--	0.16 UB	0.5 U	0.15 UB
SULFATE	14808-79-8	mg/L	250	600	--	<b>110 D</b>	<b>98 D</b>	<b>95 D</b>
TOTAL ALKALINITY AS CaCO3	ALK	mg/L	NP	1000	--	<b>180</b>	<b>260</b>	<b>270</b>
TOTAL DISSOLVED SOLIDS	10-33-3	mg/L	500	NP	--	<b>410</b>	<b>470</b>	<b>470</b>
<b>Radiological</b>								
GROSS ALPHA	12587-46-1	pCi/L	15	NP	--	<b>44.7 (+/- 7.8)</b>	<b>48.4 (+/- 9.5)</b>	<b>39.8 (+/- 6.9)</b>
GROSS BETA	12587-47-2	pCi/L	NP	NP	--	<b>15 (+/- 3)</b>	<b>17.7 (+/- 3.9)</b>	<b>15.9 (+/- 2.9)</b>
Ra-226	13982-63-3	pCi/L	5	30	--	<b>0.34 (+/- 0.2)</b>	<b>1.84 (+/- 0.6)</b>	<b>1.37 (+/- 0.47)</b>



Ra-228	15262-20-1	pCi/L	5	30	--	0.42 U (+/- 0.32)	<b>1.09 (+/- 0.39)</b>	<b>0.56 (+/- 0.29)</b>
Th-228	14274-82-9	pCi/L	NP	NP	--	0.055 U (+/- 0.043)	-0.004 U (+/- 0.044)	-0.011 U (+/- 0.037)
Th-230	14269-63-7	pCi/L	NP	NP	--	0.049 U (+/- 0.048)	0.007 U (+/- 0.049)	<b>0.084 (+/- 0.051)</b>
Th-232	7440-29-1	pCi/L	NP	NP	--	0.009 U (+/- 0.009)	0.013 U (+/- 0.014)	0.0037 U (+/- 0.0091)
U-233/234	11/8/2005	pCi/L	NP	NP	--	<b>42.8 (+/- 7.1)</b>	<b>28.4 (+/- 4.7)</b>	<b>32.3 (+/- 5.6)</b>
U-235/236	10/11/2007	pCi/L	NP	NP	--	<b>1.37 (+/- 0.32)</b>	<b>1.11 (+/- 0.28)</b>	<b>0.96 (+/- 0.28)</b>
U-238	7440-61-1	pCi/L	10	NP	--	<b>27.2 (+/- 4.5)</b>	<b>19.1 (+/- 3.2)</b>	<b>20 (+/- 3.5)</b>
<b>Total Metals</b>								
ALUMINUM	7429-90-5	mg/L	NP	NP	--	0.019 UJ	<b>0.02 JKQ</b>	<b>0.027 JKQ</b>
ANTIMONY	7440-36-0	mg/L	0.006	NP	--	0.00023 U	0.00023 U	0.00023 U
ARSENIC	7440-38-2	mg/L	0.01	NP	--	0.00063 UB	0.0013 UB	<b>0.00063 JQ</b>
BARIUM	7440-39-3	mg/L	2	NP	--	<b>0.024</b>	<b>0.06</b>	<b>0.061</b>
BERYLLIUM	7440-41-7	mg/L	0.004	NP	--	0.00014 U	0.00014 U	0.00014 U
CADMIUM	7440-43-9	mg/L	0.005	NP	--	0.00013 U	0.00013 U	0.00013 U
CALCIUM	7440-70-2	mg/L	NP	NP	--	<b>68</b>	<b>84</b>	<b>86</b>
CHROMIUM	7440-47-3	mg/L	0.1	NP	--	<b>0.0009 JQ</b>	<b>0.0013 JQ</b>	0.00074 U
COBALT	7440-48-4	mg/L	NP	NP	--	0.00021 U	0.00021 U	0.00021 U
COPPER	7440-50-8	mg/L	1.3	NP	--	0.002 UJ	0.002 UJ	<b>0.0045 JLQ</b>
IRON	7439-89-6	mg/L	NP	NP	--	0.013 U	0.013 U	0.013 U
LEAD	7439-92-1	mg/L	0.015	NP	--	<b>0.0013 JK</b>	0.00031 UJB	<b>0.002 JK</b>
MAGNESIUM	7439-95-4	mg/L	NP	NP	--	<b>22</b>	<b>13</b>	<b>13</b>
MANGANESE	7439-96-5	mg/L	NP	NP	--	0.00074 U	<b>0.076</b>	<b>0.0011 JQ</b>
MERCURY	7439-97-6	mg/L	0.002	NP	--	0.00006 U	0.00006 U	0.00006 U
NICKEL	7440-02-0	mg/L	NP	NP	--	<b>0.012</b>	0.0023 U	0.0023 U
POTASSIUM	7440-09-7	mg/L	NP	NP	--	<b>5.3</b>	<b>4.9</b>	<b>5</b>
SELENIUM	7782-49-2	mg/L	0.05	NP	--	<b>0.12</b>	<b>0.076</b>	<b>0.068</b>
SILVER	7440-22-4	mg/L	NP	NP	--	0.000041 U	0.000041 U	0.000041 U
SODIUM	7440-23-5	mg/L	NP	NP	--	<b>66</b>	<b>57</b>	<b>57</b>
THALLIUM	7440-28-0	mg/L	0.002	NP	--	0.00005 UR	0.000034 UR	<b>0.00007 R</b>
URANIUM	7440-61-1	mg/L	0.03	NP	--	<b>0.1</b>	<b>0.059</b>	<b>0.061</b>
VANADIUM	7440-62-2	mg/L	NP	NP	--	0.00072 UB	<b>0.0015 JH</b>	0.00083 UB
ZINC	7440-66-6	mg/L	NP	NP	--	<b>0.066 JH</b>	<b>0.041 JH</b>	<b>0.078</b>

mg/L - milligrams per Liter. Milligrams per liter are equivalent to parts per million.

pCi/L - picocuries per Liter

MCL - EPA National Primary Drinking Water Standard Maximum contaminant Level (MCL), MCLs are standards that are set by the EPA for drinking water quality.

An MCL is a legal threshold limit on the amount of a substance that is allowed in public water systems under the Safe Drinking Water Act.

EPA - United States Environmental Protection Agency (EPA)

NMWQCC - New Mexico Water Quality Control Commission (NMWQCC) Health-based standards

applicable to groundwater with less than 10,000 mg/L Total Dissolved Solids (TDS). For metals contaminants, these standards apply to dissolved metals.

NMWQCC for Radioactivity: Combined Radium-226 and Radium-228 standard is 30 pCi/L.

D - The concentration of reported was determined in the re-analysis of the sample at a secondary dilution

J - The identification of the analyte is acceptable; the reported value is an estimate

JH - Estimated with a high bias for the result.

JK - Estimated with a unknown bias for the result.

JKQ - Estimated with a unknown bias for the result, and the reported concentration is less than the sample quantitation limit for the specific analyte in the sample.



JLQ - Estimated with a low bias for the result, and the reported concentration is less than the sample quantitation limit for the specific analyte in the sample.

JQ - Estimated and the reported concentration is less than the sample quantitation limit for the specific analyte in the sample.

R - Quality control parameters indicate the data is unusable for all purposes.

U - Analyte analyzed for but not detected

UB - Quality control parameters indicate the data is unusable for all purposes.

UJ - Not Detected, Estimated detection limit

UJB - Analyte analyzed for but while detected the presence of the analyte may be due to blank contamination.

UR - Quality control parameters indicate the data is unusable for all purposes.

NA - Not Analyzed

NP - Not Published

UF - Unfiltered. Sample collected from a water spigot used for horses that tees off the main line from the well prior to the house.

Note. Water coming into the house is first filtered by a conventional water softener system located in the laundry room.

F - Filtered. Sample collected from a water spigot on the north side of the house. Same location as PV-03 collected 11/18/14.

This sample is filtered via a water softener system located in the laundry room.

DW - Drinking Water. Sample collected from the faucet located in the kitchen. This sample is filtered a second time using a reverse osmosis system located under the sink.

